PATENTS SUMMARY

04/23/99

Page 1

Country: China

Patent #: 1,094,895 A

Index#: 5464

Inventor: Hongxun Suo et al.

Issue Date: 11/16/94

Assignee: Huaxing Medication Research Date of Application: 05/07/93

773 847 2335

Title:

DENTAL CARE CHEWING GUM

Desc.:

Dental-care chewing gum containing an extract of houpu (Cortex Magnoliae Officinalis) is claimed. The gum contains 0.2 to 0.5% houpu extract to prevent tooth decay. The gum significantly suppresses Streptococcus mutans and lactobacilli in the mouth.

Key Words:

- 10 CHEWING GUM
- 20 Anticaries/Antiplaque (Gum)
- 50 LOW INTENSITY SWEETENERS
- 466 Spices/Herbs
- 467 Pharmaceutical Agents
- 490 Bacteria
- 504 Mixing/Gum Manufacture
- 600 ORAL HEALTH
- 601 Anticaries/Antiplaque/Anticalculus
- 605 Non-cariogenic Sweetener or Product
- 799 Other Company/Institution
- 839 China

Don Hank Translations/ 2929 Columbia Avenue/ Lancaster, PA 17603/ Phone: 717-390-8894/ Fax: 717-390-8790

DENTAL CARE CHEWING GUM [Jianchi kouxiangang]

CN 1,094,895

RECORD COPY CENTRAL FILE

5464

20

50

466

467

490

504

600

PZ/pz

6:1

605

799

839

Translated from Chinese

5993/WR

6/23/97

1/23/3/

[19] Patent Burcau of People's Republic of China

From-WRIGLEY R & D

- [11] Laid-Open No. CN 1094895A
- [12] Laid-Open Patent Application
- [21] Application No. 93111110.2
- [43] Laid-Open Date: 16 November 1994
- [22] Application Date: 7 May 1993
- [71] Applicant: Huaxing Medication Research Institute of Shengyang Address: 6, Lane 144, Nanyijie St. Shenghe District, Shengyang, Liaoning 110014
- [72] Inventor: Hongxun Suo and Zhaojun Zeng
- [74] Patent Representative Agency: Shengyang No. 2 Patent Law Firm Agent: Zhiqi Hou

A23G 3/30

No. of Pages in Description: 2

No. of Figures

Title: Dental Care Chewing Gum

Abstract

The formula for a cavity-fighting dental-care chewing gum includes extract from houpu¹, gum base, com syrup, powdered sugar, glycerin, food essence, lecithin, caramel, citric acid and supplements. The preparation process begins with pulverization of the houpu extracts, which is then evenly distributed in the powdered sugar. The resulting houpu medicinal powdered sugar is later added to a mixture of gum base, caramel, lecithin and corn syrup in a mixer together with food essence, glycerin, citric acid and supplements. The mixture is then molded, cooled and sliced to produce the final product. This product formula suppresses Streptococcus mutans and lactobacilli, and has minimal toxic side effects.

Mandarin Chinese for a herbal plant whose Latin name is cortex magnoliae officinalis- Tr.

Dental-Care Chewing Gum

This invention is a health product that can be used in medicine to prevent and fight tooth decay. At present, the medical profession here and abroad does not offer an ideal method of preventing and treating dental caries, a dental disease most common to human beings and popularly known as 'wormed tooth' in this country. According to records, people had this disease as early as the Bronze Age. With the passage of time and the evolution of the human species, the incidence of this ailment increased considerably. According to surveys conducted in this country, the incidence of dental caries stands around 80% at present, with a tendency to increase among children year by year. The problem causes inconvenience and pain, and seriously affects the appearance of young people. Therefore, research and development of a new dental care product that prevents and treats dental caries is a challenge calling for a solution.

The purpose of this invention is to provide a dental-care chewing gum that is unique in its formula, involves a simple preparation process, is low in costs, convenient to use, and changes the oral environment, significantly suppressing Streptococcus mutans and lactobacilli in the mouth.

The purpose of this invention is realized in this way: formula for the product is specified as 0.2-0.5% of houpu extract, 16-18% of gum base, 17-22% of corn syrup, powdered sugar 45-55%, 0.5-0.6% of glycerin, 0.7-0.9% of food essence, 0.2-0.3% of lecithin, 1.5-2% of caramel paste, 0.1-0.2% of citric acid, and 0.5% of supplements; its preparation process is as follows: houpu extract is pulverized and distributed evenly in powdered sugar. The resulting houpu medicinal powdered sugar is set aside for later. At a temperature of 43°C, molten gum base, caramel, lecithin and maple syrup are added into a mixer and mixed for two to three minutes. Then while the mixing process continues, already well-mixed houpu medicinal powdered sugar is added into the mixer together with food essence, glycerin, citric acid and supplements. Mixing continues until the ingredients are thoroughly mixed. The mixture is then poured into a mold, pressed, cooled, and sliced for package. The main features of this invention lies in its formula and the preparation process.

Its pharmacological analysis and usage are described here. The mechanism behind the incidence of tooth decay is not completely clear yet. According to clinical observation and study, it is the result of long-term interaction between bacteria, the host and food. Research indicates that cariogenic bacteria are mainly oral flora such as Streptococcus mutans and lactobacilli that can produce acid. The bacteria metabolism and the food decomposition and fermentation produces acidic material that causes the inorganic salts to dissolve and decalcify. The calcium-deficient tooth matter falls prey to bacteria that dissolve the protein in the tooth [sic]. Gradually, the tooth is damaged and cavities form. The most effective measure yet to prevent and treat tooth decay is to keep up good oral hygiene, change the oral environment and control the pathogenic bacteria and matter. Dental care chewing gum offers obvious power to suppress the effects of pathogenic bacteria, that is, Streptococcus mutans and lactobacilli. This medicinal health product is able to change the oral environment, suppress and kill cariogenic bacteria, and yet does not affect the distribution of oral flora. It is readily accepted by children because it can be chewed as a confection while at the same time preventing and treating tooth decay. The usage would be three to four sticks a day over a course of three months.

In comparison to the state of the art, this dental-care chewing gum is scientific in its formula, involves a simple preparation process, is low in toxic side effects, has chemically stable herbal ingredients, is safe and reliable, and therefore will be widely adopted in medicine.

į.

Claim

1. Dental-care chewing gum characterized by the fact that a formula comprising 0.2-0.5% of houpu extract, 16-18% of gum base, 17-22% of corn syrup, powdered sugar 45-55%, 0.5-0.6% of glycerin, 0.7-0.9% of food flavoring, 0.2-0.3% of lecithin, 1.5-2% of caramel paste, 0.1-0.2% of citric acid, and 0.5% of supplements is prepared by pulverizing the houpu extract and distributing it evenly in powdered sugar, setting aside the resulting houpu medicinal sugar for later and meanwhile, at a temperature of 43°C, introducing molten gum base, caramel, lecithin and maple syrup into a mixer, mixing for two to three minutes, and then as the mixing process continues, adding the already well-mixed houpu medicinal powdered sugar into the mixer together with food flavoring, glycerin, citric acid and supplements; continuing mixing until the ingredients are thoroughly mixed, and pouring the mixture into a mold, pressing, cooling, slicing and packaging.

by Westel Gares

[19]中华人民共和国专利局

[11] 公开号 CN 1094895A



[12] 发明专利申请公开说明书

[21]申请号 93111110.2

5993

[51]Int.Cl⁵
A23G 3/00

•

1431公开日 1994年11月16日

[22] 华读日 93.5.7

[71]申请人 沈阳市华星药物研究所

地址 110014辽宁省沈阳市沈河区南一街144

装6号

[72]发明人 素博勋 曾昭澄

[74]专列代理机构 沈阳市第二专利事务所 代理人 旋志奇

A23G 3/30

RECORD COPY CENTRAL FILE

THE BRITISH LIBRARY

12 JAN 1995
SCIENCE REFERENCE AND
INFORMATION SERVICE

说明书页数: 2 附凹页数:

1541重职名称 健也口音號

|57|美夏

一种用于防治颤齿的健齿口香糖,它的配方由厚朴是取物、胶基、玉米糖浆、糖粉、甘油、食用香精、卵磷脂、氟糖糊、柠檬酸、辅料组成,其制备工艺是特厚朴提取物粉碎成细粉状,均匀分数于糖粉中成为厚朴药糖粉,将胶基、焦糖糊、卵磷脂、玉米糖、紫加入遗养器中搅拌,再加入厚朴药糖粉及食用香精、甘油、柠檬酸、辅料搅拌均匀,压片冷却即成。该产品配方,具有抑制变形链球菌和乳酸杆菌,需副作用低。

< 0.2 >